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Integrated organization of the system for forming the information support of aeronautical simulator

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Abstract

© Research India Publications. In this article, we consider the complex organization of an airborne simulator information support system. The purpose of the article is to propose a method to provide a semantic structure of information in accordance with the hierarchical structure of the system for problem solving of determining an aircraft model location in a virtual space. Using an intelligent analysis of data received by the pilot from simulators of cabin equipment, using a method ″path calculation″, and also using a cognitive visual environment synthesized by a visual simulator, radar simulator, thermal camera simulator. The order of use of individual methods of restoring orientation in space is not fundamental. A prerequisite is the acquisition of professional skills, allowing the pilot in real flight to determine the location of the aircraft, learning to solve the problems of navigation tasks.

Keywords

Cognitive visual environment, Data mining, Information technologies, Path calculation, Restoration of orientation in space

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